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Substitute for form	11449APTO		Application Number	10/657, 63 7				
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	ENT BY AP		First Named Inventor	David K. Haller				
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(Use	as many sheets as nec	essary)	Examiner Name	THERESA TRIEU				
Sheet	1	of 1	Attorney Docket Number	TEC1210/C-502				

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Examiner	Cite	Document Number	U. S. PATENT I	Name of Patentee or	Pages, Columns, Lines, Where
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77		US- 4,389,171	06-21-1983	Eber et al.	
		^{US-} 4,497,615	02-05-1985	Griffith	
		^{US-} 5,062,779	11-05-1991	Da Costa	
		^{US-} 5,345,970	09-13-1994	Leyderman et al.	
		^{US-} 5,346,375	09-13-1994	Akiyama et al.	
		^{US-} 5,370,156	12-06-1994	Peracchio et al.	·
11-		^{US-} 5,597,296	01-28-1997	Akazawa et al.	
		^{US-} 5,863,190	01-26-1999	Yamamoto et al.	
	<u> </u>	^{US-} 6,132,191	10-17-2000	Hugenroth et al.	
		^{US-} 6,139,291	10-31-2000	Perevozchikov	
		^{US-} 6,179,589	01-30-2001	Bass et al.	
		^{US-} 6,224,356	05-01-2001	Dewar et al.	
		^{US-} 6,227,830	05-08-2001	Fields et al.	·
		^{US-} 6,261,073	07-17-2001	Kumazawa	
l		^{US-} 6,299,423	10-09-2001	Perevozchikov	
TT		^{US-} 6,305,912	10-23-2001	Svendsen et al.	
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	FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ (Wind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τª					
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TT		5,775,894	07/07/1998	Kosco,	Jr.	418	63				
77		5,769,126	06/23/1998	Cho		137-	856				
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77		2 755 477 - A1	11/05/1997	France				J			
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77		Re. 34,2	297	06/29/1993	Elson		417-	-	372			
		Re. 25,5	569	05/05/1964	Coron et	al.	-230-	-	117			
		2,661,17	.72	12/01/1953	Needham	ı	248_		-19-			
		3,039,72	25	06/19/1962	Kerley, Jr	r.	248		20_			
77		3,145,90	60	08/25/1964	Langdon		-248-		13			
				U.S. PATEN	IT APPLIC	ATION PUBLICATIONS						
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77		2001/00)55536	12/27/2001	Bernardi	et al.	418	_	-55.6			
77		2001/00	106603	07/05/2001	Hong et a	d.	418		55.1			
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		JP4072	259764A	10/09/1995	Japan							
		JP6108	7994	05/06/1986	Japan						·	
		JP2001	1020881A	01/23/2001	Japan							
77		JP20020	2098056A	04/05/2002	Japan					!		
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INITIAL		3,749,340	07/31/1973	Williams	et al.	-248	24	I AT NOT	IMIE	
		3,785,167	01/15/1974	Sahs	<u></u>	62-	29 6			
+	_	4,089,613	05/16/1978	Babbitt, Jr.		403	-388-			
		4,244,680	01/13/1981	Ishizuka	et al.	418	97			
77		4,416,594	11/22/1983	Ichikawa		417	360-			
			U.S. PATEN	IT APPLIC	ATION PUBLICATIONS					
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	T		4,518,276	05/21/1985	Mitcheli –		403	13~		
			4,552,518	11/12/1985	Utter		418	.55-		
			4,557,677	12/10/1985	Hasegaw	a	418	-63		
			4,685,188	08/11/1987	Goy		29	446-		
7	ī		4,767,293	08/30/1988	Caillat et	al.	418	-55		
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77		4,792,288	12/20/1988	Gromoli	et al.	417	278—		
		4,818,198	04/04/1989	Tamura	et al.	418	-55		
·		4,877,382	10/31/1989	Caillat et al.		-418	_55-		
		4,992,033	02/21/1991	Caillat et	al.	418	\$6.3		
TT		5,012,896	05/07/1991	Da Costa		184	6.16-		
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TT		5,055,010	10/08/1991	Logan		417	410-			
		5,110,268	05/05/1992	Sakurai et ai.		417	410-			
		5,114,322	05/19/1992	Caillat et	al.	418	55.6			
		5,137,437	08/11/1992	Machida	et al.	418	55.1~			
TT		5,176,506	01/05/1993	Siebel		417	_368.			
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APPLICATION NO. ATTY DOCKET NO. TEC1210-01/C-502 10/657,637 INFORMATION DISCLOSURE CITATION APPLICANT(S) David K. Haller et al. (Use several sheets if necessary) **GROUP ART UNIT** FILING DATE 2815- 3748 September 8, 2003 **U.S. PATENT DOCUMENTS** *EXAMINER FILING DATE SUBCLASS NAME CLASS DOCUMENT NUMBER DATE INITIAL IF APPROPRIATE 498 05/18/1993 62-Murayama et al. 5,211,031 TT Caillat et al. 418-55.6 06/15/1993 5,219,281 5,222,885 06/29/1993 Ramshankar et al. 418--96 417-423:13 5,224,845 07/06/1993 Mangyo et al. 08/31/1993 Ramshankar et al. 417 410R. 5,240,391 77 U.S. PATENT APPLICATION PUBLICATIONS FILING DATE *EXAMINER NAME CLASS SUBCLASS DOCUMENT NUMBER DATE (F APPROPRIATE INITIAL **FOREIGN PATENT DOCUMENTS** TRANSLATION DATE COUNTRY CLASS SUBCLASS DOCUMENT NUMBER YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED JANE 8, 205

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	5,913,89	2	06/22/1999	· Kwon		-62	-296-			
	5,931,64	9	08/03/1999	Caillat et	al.	418	-56.1-			
	5,931,65	0	08/03/1999	Yasu et a	•	-418	55.3			
TT	5,947,70	9	09/07/1999	Koyama	et al.	-4 18 -	55.6			
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APPLICATION NO. ATTY DOCKET NO. 10/657,637 TEC1210-01/C-502 INFORMATION DISCLOSURE CITATION David K. Haller et al. (Use several sheets if necessary) **GROUP ART** FILING -2815 3748 September 8, 2003 **U.S. PATENT DOCUMENTS** FILING DATE *EXAMINER CLASS SUBCLASS NAME DOCUMENT NUMBER DATE IF APPROPRIATE INITIAL 417 10/12/1999 lizuka et al. 410.3 -5,964,581 12/14/1999 Smerud et al. 417 36.8--6,000,917 310_ 91 6,011,336 01/04/2000 Mathis et al. 418 6,027,321 02/22/2000 Shim et al. 03/21/2000 Takeuchi et al. 418_ 6,039,551 TT U.S. PATENT APPLICATION PUBLICATIONS FILING DATE **EXAMINER** CLASS SUBCLASS DOCUMENT NUMBER DATE NAME IF APPROPRIATE INITIAL **FOREIGN PATENT DOCUMENTS** TRANSLATION CLASS SUBCLASS DATE COUNTRY DOCUMENT NUMBER YES NO **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

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			U.S	S. PATENT	DOCUMENTS				
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TT		6,050,794	04/18/2000	Noboru e	et al.	-418	-55.6		
		6,056,523	05/02/2000	Won et a	l.	-418	-15		
		6,106,254	08/22/2000	Hirooka	et aL .	418	55.6		
		6,156,106	12/05/2000	Kamata		96	189		
TT		6,162,035	12/19/2000	Науало е	et al.	418	-220		
			U.S. PATEN	IT APPLIC	ATION PUBLICATIONS				-
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APPLICATION NO. ATTY DOCKET NO. TEC1210-01/C-502 10/657,637 INFORMATION DISCLOSURE CITATION David K. Haller et al. (Use several sheets if necessary) FILING **GROUP ART** September 8, 2003 -2815 3748 **U.S. PATENT DOCUMENTS** "EXAMINER FILING DATE CLASS SUBCLASS DOCUMENT NUMBER NAME DATE INITIAL IF APPROPRIATE 01/02/2001 Yakumaru et al. 62-468 6,167,719 6,171,076 01/02/2001 Yakumaru et al. 62___ 468---418---02/13/2001 55.1 6,186,753 Hugenroth et al. 6,247,910 06/19/2001 Yokoyama 418--.55.1_—, 6,264,446 07/24/2001 Rajendran et al. 418-55.6 TΤ **U.S. PATENT APPLICATION PUBLICATIONS EXAMINER** FILING DATE DOCUMENT NUMBER DATE NAME CLASS SUBCLASS IF APPROPRIATE INITIAL **FOREIGN PATENT DOCUMENTS** TRANSLATION DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER** DATE CONSIDERED JUNE 8, 2025

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					U.S. PATENT DOCUMENTS					
*EXAMINER		DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS	FILING DATE	_	
π	6,	6,280,154 08/28/2001 Clendo		Clendenir	et al.	417	410.5	410.5		
TT	6,	402,485	06/11/2002	Hong et al.		417—	366_			
U.S. PATENT APPLICATION PUBLICATIONS										
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